

Application No. 10/776,530
Amendment dated January 28, 2008
After Final Office Action of November 5, 2007

Docket No.: 4444-0136P

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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for editing media in an electronic apparatus with digital audio/video processing capability, comprising:

receiving audio data and a plurality of associated audio descriptors, which describe characteristic of said audio data, from an audio source connecting to said electronic apparatus;

receiving visual data included a plurality of visual segments, and a plurality of associated visual descriptors, which describe characteristic of said visual data, from a video source connecting to said electronic apparatus;

determining a plurality of corresponding weights for said visual data, said weights indicating qualities, importance, or preference of said visual data;

correlating said audio data and said visual data based on said corresponding weights, said associated audio descriptors, and said associated visual descriptors; and

adjusting said audio data and said visual data to construct a media output;

wherein the receiving audio data and said associated audio descriptors comprises:

receiving an audio signal from said audio source; and

generating a plurality of audio indices by choosing said audio signal with audio change

therein:

wherein the step of correlating further comprises:

finding a duration on each said visual segment;

determining a searching window based on said duration;

finding, within said searching window, a first index on said audio indices, wherein said

first index is more than other indices on said audio indices within said searching window; and

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adjusting each said visual segment, based on a time corresponding to said first index.

2. (Currently Amended) The method according to claim 1, further comprising rendering said media output with style information to ~~an audio and/or video output devices~~ a device with at least one audio/ video output built in or connecting to said electronic apparatus.

3. (Previously Presented) The method according to claim 1, wherein the step of receiving audio data and said associated audio descriptors comprises:

receiving an audio signal from said audio source; and

analyzing and segmenting said audio signal for generating said audio data and said associated audio descriptors, wherein said audio data consists of a plurality of audio segments.

4. (Cancelled)

5. (Previously Presented) The method according to claim 4, wherein the step of determining a plurality of corresponding weights comprises calculating any said corresponding weight for respective said visual segment.

6. (Previously Presented) The method according to claim 5, wherein the step of correlating comprises:

extracting an audio duration, from said associated audio descriptors, for respective said audio segment;

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extracting a visual duration, from said associated visual descriptors, for respective said visual segment;

evaluating a plurality of correlating scores for respective sequences of said visual segments, based on said corresponding weights, said corresponding audio durations and said corresponding visual durations; and

finding a sequence of visual segments with a correlating score that is the maximal within said plurality of correlating scores.

7. (Cancelled)

8. (Cancelled)

9. (Previously Presented) A production method of media output in an electronic apparatus with digital audio/video processing capability, comprising:

receiving audio segments and a plurality of associated audio descriptors, which describe characteristic of said audio segments, from an audio source connecting to said electronic apparatus;

receiving visual segments and a plurality of associated visual descriptors, which describe characteristic of said visual segments, from a video source connecting to said electronic apparatus;

determining a plurality of corresponding weights for each said visual segment, said weights indicating qualities, importance, or preference of said visual segment;

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extracting a visual duration, from said associated visual descriptors, for each said visual segment;

extracting an audio duration, from said associated audio descriptors, for each said audio segment;

evaluating a plurality of correlating scores for respective sequences of said visual segments, based on said corresponding weights, said corresponding audio durations and said corresponding visual durations;

finding a sequence of visual segments with a correlating score that is the maximal within said plurality of correlating scores; and

adjusting said audio segments and said visual segments to generate a media output.

10. (Currently Amended) The production method according to claim 9, further comprising rendering said media output with style information to ~~an audio and/or video output devices~~ a device with at least one audio/video output built in or connecting to said electronic apparatus.

11. (Currently Amended) The production method according to claim 9, wherein the step of receiving audio segments and associated audio descriptors comprises:

receiving an audio signal from said audio source; and

analyzing and segmenting said audio signal for generating said audio segments and said associated audio descriptors.

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12. (Previously Presented) The production method according to claim 9, wherein the step of receiving visual segments and associated visual descriptors comprises:

receiving an video signal from said video source; and

analyzing and segmenting said video signal for generating said video segments and said associated visual descriptors.

13. (Previously Presented) The production method according to claim 9, wherein said visual segments and said associated visual descriptors are in format of MPEG-7.

14. (Previously Presented) The production method according to claim 9, wherein said audio segments and said associated audio descriptors are in format of MPEG-7.

15. (Previously Presented) A production method of media output in an electronic apparatus with digital audio/video processing capability, comprising:

receiving audio data and a plurality of associated audio descriptors, which describe characteristic of said audio data, from an audio source connecting to said electronic apparatus;

receiving visual data and a plurality of associated visual descriptors, which describe characteristic of said visual data, from a video source connecting to said electronic apparatus;

determining a plurality of corresponding weights for said visual data, said weights indicating qualities, importance, or preference of said visual segment;

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finding, within a searching window, a value corresponding to said associated audio descriptors on said audio data, wherein said value is more than other value corresponding to associated audio descriptors within said searching window; and

adjusting said visual data, based on a time corresponding to said value, to generate a media output, wherein said media output is based on audio data and said adjusted visual data.

16. (Currently Amended) The production method according to claim 15, further comprising rendering said media output with style information to ~~an audio and/or video output devices~~ a device with at least one audio/video output built in or connecting to said electronic apparatus.

17. (Previously Presented) The production method according to claim 15, wherein said visual data and said associated visual descriptors are in format of MPEG-7.

18. (Previously Presented) The production method according to claim 15, wherein said audio data and said associated audio descriptors are in format of MPEG-7.

19. (Previously Presented) The production method according to claim 15, wherein the step of receiving said audio data and said associated audio descriptors comprises:

receiving an audio signal from said audio source; and

generating a plurality of audio indices by choosing said audio signal with audio change therein.

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20. (Currently Amended) A computer-readable medium storing ~~program logic code that, when executed in an electronic apparatus with digital audio/video processing capability, is capable of editing media;~~ editing system for audio/video comprising:

~~program logic code, when executed, receiving audio data and a plurality of associated audio descriptors, which describe characteristic of said audio data, from an audio source connecting to said electronic apparatus;~~

~~program logic code, when executed, receiving visual data and a plurality of associated visual descriptors, which describe characteristic of said visual data, from a video source connecting to said electronic apparatus;~~

a weighting processing device for program logic code, when executed, determining a plurality of corresponding weights for said inputted visual data, said weights indicating qualities, importance, or preference of said visual data;

a correlating processing device for program logic code, when executed, correlating said inputted audio data and said visual data based on said corresponding weights, said ~~associated a~~ plurality of inputted audio descriptors which describe characteristic of said audio data, and said ~~associated a~~ plurality of inputted visual descriptors which describe characteristic of said visual data; and

a construction device for program logic code, when executed, adjusting said audio data and said visual data to construct a media output.

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21. (Currently Amended) A computer-readable ~~medium storing program logic code that, when executed in an electronic apparatus with digital audio/video processing capability, is capable of editing media,~~ editing system for audio/video comprising:

~~program logic code, when executed, receiving audio segments and a plurality of associated audio descriptors, which describe characteristic of said audio segments, from an audio source connecting to said electronic apparatus;~~

~~program logic code, when executed, receiving visual segments and a plurality of associated visual descriptors, which describe characteristic of said visual segments, from a video source connecting to said electronic apparatus;~~

a weighting processing device for program logic code, when executed, determining a corresponding weight for said-inputted visual segment, said weight indicating qualities, importance, or preference of said visual segment;

an extracting device for program logic code, when executed, extracting a visual duration, from said associated visual descriptors, for each said visual segment;

an extracting device for program logic code, when executed, extracting an audio duration, from said-inputted associated audio descriptors, for each said audio segment;

a evaluating device for program logic code, when executed, evaluating a plurality of correlating scores for respective sequences of said visual segments, based on said corresponding weights, said corresponding visual durations and said corresponding audio duration;

a searching device for program logic code, when executed, finding a sequence of visual segments with a correlating score that is the maximal within said plurality of correlating scores;
and

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a construction device for program logic code, when executed, adjusting said audio segments and said segments to generate a media output.

22. (Currently Amended) ~~A computer-readable medium storing program logic code that, when executed in an electronic apparatus with digital audio/video processing capability, is capable of editing media;~~ editing system for audio/video comprising:

~~program logic code, when executed, receiving audio data and a plurality of associated audio descriptors, which describe characteristic of said audio data, from an audio source connecting to said electronic apparatus;~~

~~program logic code, when executed, receiving visual data and a plurality of associated visual descriptors, which describes characteristic of said visual data, from a video source connecting to said electronic apparatus;~~

a weighting processing device for program logic code, when executed, determining a plurality of corresponding weights for said inputted visual data, said weights indicating qualities, importance, or preference of said visual segment data;

a searching device for program logic code, when executed, finding, within a searching window, a value corresponding to said inputted associated audio descriptors on said inputted audio data, wherein said value is more than other value corresponding to said associated audio descriptors within said searching window; and

a construction device for program logic code, when executed, adjusting said visual data, based on a time corresponding to said value, to generate a media output, wherein said media output is based on said audio data and said adjusted visual data.